

Publikationer/Publications

Atmosfærisk miljø/Atmospheric Environment

Forskning/Research

Internationale videnskabelige publikationer med referee/International Scientific Publications

Ambelas Skjøth, C., Hertel, O. & Ellermann, T. 2002: Use of the ACDEP trajectory model in the Danish nation-wide Background Monitoring Programme. - *Physics and Chemistry of the Earth* 27(35): 1469-1477.

Antonov, A., Georgiev, K., Komsalova, E. & Zlatev, Z. 2003: Implementation of Bilinear Nonconforming Finite Elements in an Eulerian Air Pollution Model. Results Obtained by Using the Rotational Test. - *Lecture Notes in Computer Science. Numerical Methods and Applications* 2542: 379-386.

Berkowicz, R., Ketzel, M., Vachon, G., Louka, P., Rosant, J.-M., Mestayer, P.G. & Sini, J.-F. 2002: Examination of Traffic Pollution Distribution in a Street Canyon using the Nantes '99 Experimental Data and Comparison with Model Results. In: Sokhi, R.S. & Bartzis, J.G.: *Urban Air Quality - Recent Advances*. Kluwer Academic Publishers. - *Water, Air, and Soil Pollution: Focus* 2: 311-324.

Bernard, G., Gimenez-Arnau, E., Rastogi, S.C., Heydron, S., Johansen, J.D., Menne, T., Goossens, A., Andersen, K.E. & Lepoittevin, J.-P. 2003: Contact allergy to oak moss: search for sensitizing molecules using bioassay-guided chemical fractionation, GC-MS and structure-activity relationship analysis. - *Archives of Dermatological Research* 295: 229-235.

Brandt, J., Christensen, J., Frohn, L.M. & Berkowicz, R. 2003: Air pollution forecasting from regional to urban street scale - implementation and validation for two cities in Denmark. - *Physics and Chemistry of the Earth* 28(8): 335-344.

de Leeuw, G., Ambelas Skjøth, C., Hertel, O., Jickells, T., Spokes, L., Vignati, E., Frohn, L.M., Frydendall, J., Schulz, M., Tamm, S., Sørensen, L.L. & Kunz, G.J. 2003: Deposition of nitrogen into the North Sea. - *Atmospheric Environment* 37(Supplement 1): S145-S165.

de Leeuw, G., Spokes, L., Jickells, T., Ambelas Skjøth, C., Hertel, O., Vignati, E., Tamm, S., Schulz, M., Sørensen, L.-L., Pedersen, B., Klein, L. & Schlünzen, K.H. 2003: Atmospheric nitrogen inputs into the North Sea: effect on productivity. - *Continental Shelf Research* 23(17-19): 1743-1755.

Dimov, I., Farago, I. & Zlatev, Z. 2003: Parallel Computations with Large-scale Air Pollution Models. - *Problems in Programming* 5(3): 44-52.

Dimov, I., Lirkov, I., Margenov, S. & Zlatev, Z. (eds) 2003: *Numerical Methods and Applications. 5th International Conference, NMA 2002, Borovets, Bulgaria, August 20-24, 2002*. Springer. - *Lecture Notes in Computer Science* 2542: 574 pp.

Fenger, J. 2002: Urban-Scale Air Pollution. In: Hewitt, N. & Jackson, A. (eds.): *Handbook of Atmospheric Science*. Blackwell. Pp. 399-438.

- Gallivan, K.A., Sameh, A.H. & Zlatev, Z. 2003: Comparison of Ten Methods for the Solution of Large and Sparse Linear Algebraic Systems. In: Dimov, I. Lirkov, I., Margenov, S. & Zlatev, Z. (Eds.): : Numerical Methods and Applications. 5th International Conference, NMA 2002, Borovets, Bulgaria, August 20-24, 2002. Springer. - Lecture Notes in Computer Science 2542: 24-35.
- Hasager, C.B., Carstensen, J., Ellermann, T., Gustafson, B.G., Hertel, O., Johnsson, M., Markager, S.S. & Ambelas Skjøth, C. 2003: On extreme atmospheric and marine nitrogen fluxes and chlorophyll-a levels in the Kattegat Strait. - *Atmospheric Chemistry and Physics* 3: 797-812.
- Hertel, O. & Palmgren, F. 2003: Urban air pollution. Preface. - *Physics and Chemistry of the Earth* 28: p. 305.
- Hertel, O., Ambelas Skjøth, C., Brandt, J., Christensen, J., Frohn, L.M. & Frydendall, J. 2003: Operational mapping of atmospheric nitrogen deposition to the Baltic Sea. - *Atmospheric Chemistry and Physics* 3(6): 2083-2099.
- Hertel, O., Ellermann, T., Ambelas Skjøth, C. & Frydendall, J. 2003: Influence of the local sources on the atmospheric nitrogen deposition in Denmark. - *Asian Chemistry Letters* 7(2&3): 123-134.
- Jørgensen, P.R., Hoffmann, M., Kistrup, J.P., Bryde, C., Bossi, R. & Vilholt, K.G. 2002: Preferential flow and pesticide transport in a clay-rich till: Field, laboratory, and modeling analysis. - *Water Resources Research* 38(11): 28/1-28/15.
- Kastner-Klein, P., Fedorovich, E., Ketznel, M., Berkowicz, R. & Britter, R. 2003: The Modelling of Turbulence from Traffic in Urban Dispersion Models - Part II: Evaluation Against Laboratory and Full-Scale Concentration Measurements in Street Canyons. - *Environmental Fluid Mechanics* 3: 145-172.
- Kemp, K. 2003: Heavy metals in edible mushrooms. - *International Journal of PIXE* 12(3&4): 117-124.
- Ketznel, M., Berkowicz, R., Müller, W.J. & Lohmeyer, A. 2002: Dependence of street canyon concentrations on above-roof wind speed - implications for numerical modelling. - *International Journal of Environment and Pollution* 17(4): 356-366.
- Ketznel, M., Louka, P., Sahm, P., Guilloteau, E., Sini, J.-F. & Moussiopoulos, N. 2002: Intercomparison of Numerical Urban Dispersion models -Part II. Street Canyon in Hannover, Germany. In: Sokhi, R.S. & Bartzis, J.G.: *Urban Air Quality - Recent Advances*. Kluwer Academic Publishers. - *Water, Air, and Soil Pollution. Focus* 2: 603-613.
- Ketznel, M., Wåhlin, P., Berkowicz, R. & Palmgren, F. 2003: Particle and trace gas emission factors under urban driving conditions in Copenhagen based on street and roof-level observations. - *Atmospheric Environment* 37: 2735-2749.
- Ketznel, M., Wåhlin, P., Kristensson, A., Swietlicki, E., Berkowicz, R., Nielsen, O.J. & Palmgren, F. 2003: Particle size distribution and particle mass measurements at urban, near-city and rural level in the Copenhagen area and Southern Sweden. - *Atmospheric Chemistry and Physics Discussions* 3: 5513-5546.
- Krogh, K.A., Halling-Sørensen, B., Mogensen, B.B. & Vejrup, K.V. 2003: Environmental properties and effects of nonionic surfactant adjuvants in pesticides: a review. - *Chemosphere* 50(7): 871-901.

Krogh, K.A., Mogensén, B.B., Halling-Sørensen, B., Cortés, A., Vejrup, K. & Barceló, D. 2003: Analysis of alcohol ethoxylates and alkylamine ethoxylates in agricultural soils using pressurised liquid extraction and liquid chromatography-mass spectrometry. - *Analytical and Bioanalytical Chemistry* 376(7): 1089-1097.

Le Bihan, O., Wåhlin, P., Ketzel, M., Palmgren, F. & Berkowicz, R. 2002: Application of Dispersion Modelling for Analysis of Particle Pollution Sources in a Street Canyon. In: Sokhi, R.S. & Bartzis, J.G.: *Urban Air Quality - Recent Advances*. Kluwer Academic Publishers. - *Water, Air, and Soil Pollution: Focus* 2: 395-404.

Ostrowsky, T. & Zlatev, Z. 2003: Flexible Two-Level Parallel Implementations of a Large Air Pollution Model. In: Dimov, I., Lirkov, I., Margenov, S. & Zlatev, Z. (eds): *Numerical Methods and Applications*. 5th International Conference, NMA 2002, Borovets, Bulgaria, August 20-24, 2002. Springer. - *Lecture Notes in Computer Science* 2542: 545-554.

Owczarzewski, W. & Zlatev, Z. 2003: Running a Large Air Pollution Model on an IBM SMP Computer. In: Paprzycki, M. & Yang, L. (eds): *Practical Applications of Parallel Computing*. Nova Publishers. - *Advances in Computation: Theory and Practice* 12: 283-300.

Palmgren, F., Wåhlin, P., Kildesø, J., Afshari, A. & Fogh, C.L. 2003: Characterisation of particle emissions from the driving car fleet and the contribution to ambient and indoor particle concentrations. - *Physics and Chemistry of the Earth* 28(8): 327-334.

Rastogi, S.C., Menné, T. & Johansen, J.D. 2003: The composition of fine fragrances in changing. - *Contact Dermatitis* 48: 130-132.

Sahm, P., Louka, P., Ketzel, M., Guilloteau, E. & Sini, J.-F. 2002: Intercomparison of Numerical Urban Dispersion Models -Part I. Street Canyon and Single Building Configurations. In: Sokhi, R.S. & Bartzis, J.G.: *Urban Air Quality - Recent Advances*. Kluwer Academic Publishers. - *Water, Air, and Soil Pollution: Focus* 2: 587-601.

Skov, H., Nielsdóttir, M.C., Goodsite, M.E., Christensen, J., Ambelas Skjøth, C., Geernaert, G., Hertel, O. & Olsen, J. 2003: Measurements and modelling of gaseous elemental mercury (GEM) on the Faroe Islands: a case study of the difficulties of measuring GEM. - *Asian Chemistry Letters* 7(2 & 3): 151-158.

Soll-Johanning, H., Bach, E. & Jensen, S.S. 2003: Lung and bladder cancer among Danish urban bus drivers and tramway employees. A nested case-control study. - *Occupational Medicine* 2003 53(1): 25-33.

Stoltenberg, M., Larsen, A., Kemp, K., Bloch, D. & Weihe, P. 2003: Autometallographic Tracing of Mercury in Pilot Whale Tissue in the Faeroe Islands. - *International Journal of Circumpolar Health* 62(2): 182-189.

Sutton, M.A., Asman, W.A.H., Ellermann, T., Van Jaarsveld, J.A., Acker, K., Aneja, V., Duyzer, J., Horvath, L., Paramonov, S., Mitosinkova, M., Tang, Y.S., Achermann, B., Gauger, T., Bartniki, J., Neftel, A. & Erisman, J.W. 2003: Establishing the Link between Ammonia Emission Control and Measurements of Reduced Nitrogen Concentrations and Deposition. - *Environmental Monitoring and Assessment* 82: 149-185.

Svedman, C., Bruze, M., Johansen, J.D., Andersen, K.E., Goossens, A., Frosch, P.J., Lepoittevin,

J.P., Rastogi, S.C., White, I.R. & Menné, T. 2003: Deodorants: an experimental provocation study with hydroxycitronellal. - *Contact Dermatitis* 48: 217-223.

Sørensen, L.L., Hertel, O., Ambelas Skjøth, C., Lund, M. & Pedersen, B. 2003: Fluxes of ammonia in the coastal marine boundary layer. - *Atmospheric Environment* 37(Supplement 1): S167-S177.

Sørensen, M., Autrup, H., Hertel, O., Wallin, H., Knudsen, L.E. & Loft, S. 2003: Personal exposure to PM_{2.5} and biomarkers of DNA damage. - *Cancer Epidemiology Biomarkers & Prevention* 12(3): 191-196.

Sørensen, M., Autrup, H., Møller, P., Hertel, O., Jensen, S.S., Vinzents, P., Knudsen, L.E. & Loft, S. 2003: Linking exposure to environmental pollutants with biological effects. - *Mutation Research/Reviews in Mutation Research* 544(2-3): 255-271.

Sørensen, M., Skov, H., Autrup, H., Hertel, O. & Loft, S. 2003: Urban benzene exposure and oxidative DNA damage: influence of genetic polymorphisms in metabolism genes. - *The Science of the Total Environment* 309: 69-80.

Wählin, P. 2003: COPREM-A multivariate receptor model with a physical approach. - *Atmospheric Environment* 37(35): 4861-4867.

Zachariae, C., Rastogi, S.C., Devantier, C., Menné, T. & Johansen, J.D. 2003: Methylaldibromoglutaronitrile: clinical experience and exposure-based risk assessment. - *Contact Dermatitis* 48: 150-154.

Zlatev, Z. 2003: Large Scale Air Pollution Models. In: Melas, D. & Syrakov, D. (eds.): *Air Pollution Processes in Regional Scale. Proceedings of the NATO Advanced Research Workshop, Kallithea, Halkidiki, Greece, from 13 to 15 June 2003.* Kluwer. - *NATO Science Series: IV: Earth and Environmental Sciences* 30: 373-384.

Zlatev, Z. 2003: Numerical and Computational Challenges in Environmental Modelling. In: Rodrigues, A.E., de Oliveira, P., Castro, J.A. & Ferreira, J.A.: *Modelling and Simulation in Chemical Engineering.* Portugal: Centro Internacional de Matemática. - *Centro Internacional de Matematica* 22 : 111-127.

Indlæg ved kongresser, symposier m.v./Conference presentations

Ambelas Skjøth, C., Gyldenkerne, S., Hertel, O. & Ellermann, T.: A dynamical Ammonia Emission Parameterization for use in Large and Local Scale Air Pollution Models. Poster presented at the EGS-AGU-EUG Joint Assembly, Atmospheric Environment and Urban Meteorology, Nice, France, 6-11 April 2003.

Ambelas Skjøth, C., Hertel, O., Ellermann, T., Frohn, L.M. & Frydendall, J.: Long term study of atmospheric nitrogen deposition to the Kattegat Sea. Poster presented at the EGS-AGU-EUG Joint Assembly, Atmospheric Environment and Urban Meteorology, Nice, France, 6-11 April 2003.

Antonov, A., Georgiev, K., Komsalova, E. & Zlatev, Z.: Comparison of Two Local Refinement Methods for Large Scale Air Pollution Models. 4th International Conference on "Large-Scale Scientific Computations", Sozopol, Bulgaria, June 4-8, 2003.

Bossi, R. & Andersen, H.V.: A multiresidue method for the determination of pesticides and selected nitrophenols in the atmosphere. XII Symposium Pesticide Chemistry, Pesticide in air,

plant, soil and Water system, Piacenza, Italy, 4-6 June 2003.

Brandt, J., Christensen, J., Frohn, L.M. & Geels, C.: The THOR integrated air pollution forecast and management system. GLOREAM/EURASAP workshop 2003, Modern developments in modelling and chemical data analysis, Cologne, Germany, September 29 - October 1, 2003. Available at: <http://www.eurad.uni-koeln.de/GLOREAM/glorindex.html>

Brandt, J., Christensen, J.H., Ambelas Skjøth, C., Geels, C. & Frohn, L.M.: High resolution weather forecasting using dynamical downscaling. Third FLOOD RELIEF meeting, Cambridge, UK, December 8-9, 2003.

Brandt, J., Christensen, J.H., Ambelas Skjøth, C., Geels, C. & Frohn, L.M.: Recent developments in high resolution weather forecasting and progress in FLOOD RELIEF. Second FLOOD RELIEF meeting, Wroclaw, Poland, June 2-3, 2003.

Brandt, J., Geels, C., Christensen, J., Frohn, L.M., Hansen, K.M., Ambelas Skjøth, C. & Hertel, O.: Comparison of two operational long-range transport air pollution forecast models. Poster presented at the EGS-AGU-EUG Joint Assembly, Atmospheric Environment and Urban Meteorology, Nice, France, 6-11 April 2003.

Butts, M.B., Cluckie, I.D., Brandt, J., Mengelkamp, H.-T., Dubicki, A., Wozniak, Z., Levandowski, A., Khatibi, R. & Price, D.: FLOOD RELIEF - A real-time decision support system integrating hydrological, meteorological and radar technologies. Poster presented at the Third World Water Forum, Kyoto, Japan, 16-23 March, 2003.

Butts, M.B., Cluckie, I.D., Brandt, J., Mengelkamp, H.-T., Dubicki, A., Wozniak, Z., Levandowski, A., Khatibi, R. & Price, D.: FLOODRELIEF - A real-time decision support system integrating hydrological, meteorological and radar technologies. International Conference on Advances in Flood Forecasting in Europe, Rotterdam, The Netherlands, 3-6 March 2003.

Christensen, J., Brandt, J., Butts, M.B., Cluckie, I.D., Dubicki, A., Frohn, L.M., Geels, C., Khatibi, R., Levandowski, A., Mengelkamp, H.-T., Price, D., Ambelas Skjøth, C. & Wozniak, Z.: Dynamical downscaling in weather forecast modelling. Acqua Alta Congress, München, Germany, November 24-27, 2003.

Christensen, J., Brandt, J., Frohn, L.M., Geels, C. & Hansen, K.M.: Model studies of the influence from the natural climate variations on the transport of air pollution to the arctic. Poster presented at the EGS-AGU-EUG Joint Assembly, Atmospheric Environment and Urban Meteorology, Nice, France, 6-11 April 2003.

Ciais, P., Rivier, L., Bousquet, P., Brandt, J., Geels, C., Gloor, M., Heimann, M., Roedenbeck, C., Peylin, P. & Karstens, U.: Understanding and quantifying the greenhouse gas budgets of ocean. Poster presented at the EGS-AGU-EUG Joint Assembly (EGS XXVIII Assembly), Nice, France, April 6-11, 2003.

Ebel, A., Georgiev, K. & Zlatev, Z.: Environmental Modelling. 4th International Conference on "Large-Scale Scientific Computing", Sozopol, Bulgaria, June 4-8, 2003.

Frohn, L.M., Brandt, J., Christensen, J., Geels, C., Hansen, K.M. & Hertel, O.: First results from the 3-D hemispheric model REGINA with two nests. Poster presented at the EGS-AGU-EUG Joint Assembly, Atmospheric Environment and Urban Meteorology, Nice, France, 6-11 April 2003.

Frohn, L.M., Christensen, J., Brandt, J., Geels, C. & Hansen, K.M.: The DEHM air pollution models. GLOREAM/EURASAP Workshop 2003, Modern developments in modelling and chemical data analysis, Cologne, Germany, September 29 - October 1, 2003.
Available at: <http://www.eurad.uni-koeln.de/GLOREAM/glorindex.html>

Frydendall, J., Ambelas Skjøth, C., Nørgaard Mikkelsen, T., Andersen, H.V. & Hertel, O.: Test and implementation of a dry deposition module for use in transport-chemistry models for Northern Europe. Poster presented at the EGS-AGU-EUG Joint Assembly, Atmospheric Environment and Urban Meteorology, Nice, France, 6-11 April 2003.

Geels, C., Brandt, J., Christensen, J. H., Frohn, L.M. & Hansen, K.M.: Simulations of Atmospheric CO₂ over Europe. Examples from a nested model study. EGS-AGU-EUG Joint Assembly, Atmospheric environment and urban meteorology, Nice, France, 6-11 April 2003.

Geels, C., Brandt, J., Christensen, J.H., Frohn, L.M. & Hansen, K.M.: Simulations of synoptic scale variations of atmospheric CO₂ over Europe. Examples from a nested model study. Poster presented at the CarboEurope Conference, The continental carbon cycle, Lisbon, Portugal, 19-21 March 2003.

Geels, C., Christensen, J., Brandt, J., Frohn, L.M. & Hansen, K.M.: A nested hemispheric model for simulations of atmospheric CO₂. Poster presented at the 26th NATO/CCMS International Technical Meeting on Air Pollution Modelling and its Application, Istanbul, Turkey, May 26-30, 2003.

Grundahl, L. & Egeløv, A.H.: A QA/QC system for monitoring stations for measuring air pollution in ambient air. Poster presented at the QA/QC in the Field of Emission and Air Quality Measurements, Harmonization, Standardization and Accreditation, Prague, Czech Republic, 21-23 May 2003.

Gyldenkerne, S. & Mikkelsen, M.H.: The Danish emission inventories on GHG and ammonia . - The present and future changes -. Workshop on Inventories and Projections of Greenhouse Gas and Ammonia Emissions from Agriculture, Working Groups I and II of the EU GHG Monitoring Mechanism Committee, European Environment Agency, Copenhagen, Denmark, 27-28 February 2003.

Hansen, K.M., Christensen, J. H., Brandt, L., Frohn, L. & Geels, C.: Atmospheric transport of alpha-hexachlorocyclohexane - development of a 3-d dynamical transport model covering the northern hemisphere. SETAC EUROPE, 13th Annual Meeting, Understanding the Complexity of Environmental Issues - a way to sustainability, Hamburg, Germany, 27 April - 1 May 2003.

Hansen, K.M., Christensen, J.H., Geels, C., Frohn, L.M. & Brandt, J.: Atmospheric transport of persistent organic pollutants - development of a 3-d dynamical transport model covering the northern hemisphere. EGS-AGU-EUG Joint Assembly, Nice, France, 6-11 April 2003.

Hansen, K.M., Weber, J., Christensen, J. & Halsall, C.J.: Modelling the air-snowpack exchange of POPs in Arctic. Poster presented at the SETAC 24th Annual Meeting in North America, Austin, Texas, USA, November 9-13, 2003.

Hasager, C.B., Carsensen, J., Gustafsson, B., Hertel, O., Johnsson, M., Markager, S.S. & Ambelas Skjøth, C.: Atmospheric and marine extreme nitrogen flux events and chlorophyll-a in the Kattegat Stra. Poster presented at the EGS-AGU-EUG Joint Assembly, Atmospheric Environment and Urban Meteorology, Nice, France, 6-11 April 2003.

Jensen, K.A., Utsunomiya, S., Glasius, M., Wåhlin, P., Palmgren, F. & Ewing, R.C.: Identity of transition and heavy metal nanoparticles in the urban outdoor and indoor atmosphere: Implications for health effect assessments. Poster presented at the 7th Nordic Conference of the Nordic Societies of Toxicology and Environmental Mutagenesis, Griffen Hotel, Bornholm, Denmark, June 15-18, 2003.

Jensen, S.S., Berkowicz, R. & Hertel, O.: Recent Advancement in Air Pollution Modelling and Population Exposure. Workshop of SNAP & Nätverket, Gothenburg, Sweden, April 7-8, 2003.

Jensen, S.S., Berkowicz, R., Hertel, O., Hvidberg, M., Ketzel, M., Wåhlin, P., Hansen, H.S. & Kousgaard, U.: Modelling Human Exposure to Particles using GIS and GPS. Nordic Transport Research (NTF) Particle Seminar, Particulate pollution, composition and health effects, Oslo, Norway, 10-11 March 2003.

Available at: http://www.toi.no/attach/a153487r177517/Part_Day_2_6_Solvang_Jensen.pdf

Jensen, S.S., Berkowicz, R., Hertel, O., Hvidberg, M., Kousgaard, U. & Hansen, H.S.: Impact Assessment System for Urban Air Pollution and Population Exposure. Poster presented at the Airnet, Rome, Italy, 5-7 November 2003.

Jensen, S.S., Brocas, M., Hertel, O. & Berkowicz, R.: Modelling of Personal Exposure to Traffic Air Pollution using GIS and GPS. 13th Annual Conference - International Society of Exposure Analysis, Stresa, Italy, 21-25 September 2003.

Kai, P., Ellermann, T., Mikkelsen, T., Løfstrøm, P. & Jørgensen, H.E.: Effect of Stack Height on Close Range Dispersion of Exhaust Air From Pig Houses. International Symposium on Gaseous and Odour Emissions From Animal Production Facilities, Scandic Hotel Bygholm Park, Horsens, Denmark, 1-4 June 2003.

Ketzel, M.: Particles in the street environment - Jagtvej, Copenhagen. Workshop of SNAP and Nätverket, Gothenburg, Sweden, April 7-8, 2003.

Ketzel, M. & Berkowicz, R.: Modelling of Ultrafine Particles at Street Level and Urban Background. NOSA Aerosol Symposium 2003, Aerosols and Water, Copenhagen, Denmark, 13-14 November 2003.

Ketzel, M., Wåhlin, P. & Berkowicz, R.: Street level versus urban background concentrations of submicron particles in Copenhagen - Measurements and first modeling studies. 6. International ETH-Conference on Nanoparticle Measurement, Zürich, Switzerland, August 19-21, 2002.

Ketzel, M., Wåhlin, P., Berkowicz, R. & Palmgren, F.: Experimental and Modelling Studies of Ultrafine Particle Concentrations in Urban Street and Background Environment. 7th ETH-Conference on Combustion generated Nanoparticles, Zürich, Switzerland, 18-20 August 2003.

Levin, G.: Land use development under conditions of easy market access in a mountainous environment of the Ecuadorian Andes. Poster presented at the Local land use strategies in a globalizing world, Shaping sustainable social and natural environments, Institute of geography, Geocenter, University of Copenhagen, Copenhagen, Denmark, 21-23 August 2003.

Palmgren, F. & Wåhlin, P.: Exhaust and non-exhaust vehicle particle emissions estimated by air quality measurement. International Conference on EURO V and Future Worldwide Emission Requirements for Passenger Cars and Light Duty Vehicles, Ispra, Italy, 10-11 December 2003.

Rastogi, S.C.: Determination of methyl dibromoglutaronitrile by HPLC and electrochemical detection. Poster presented at the 27th Symposium on High Performance Liquid Phase Separations and Related Techniques, Nice, France, 15-19 June 2003.

Rivier, L., Bousquet, P., Brandt, J., Ciais, P., Gloor, M., Heimann, M., Karstens, U., Peylin, P. & Rodenbeck, C.: Estimation of the regional sources and sinks of CO₂ with a focus on Europe using both mesoscale and global atmospheric models. Poster presented at the EGS-AGU-EUG Joint Assembly (EGS XXVIII Assembly), Nice, France, April 6-11, 2003.

Skov, H., Christensen, J., Wåhlin, P., Goodsite, M.E., Brooks, S., Alfonso, S-L., Nielsen, O.J. & Jensen, B.: Studies of the fate of atmospheric mercury in Arctic. Poster presented at the Fourth informal Conference on reaction Kinetics and Atmospheric Chemistry, With a special focus on: Modeling Atmospheric Chemistry, Helsingør, Denmark, 13-15 June 2003.

Smalins, E., Zommere, K. & Jensen, S.S.: Estimation of Road Transport Air Emissions in Riga City. Integrative Approach Towards Sustainability, Jurmala, Latvia, 26-29 March 2003.

Smalins, E., Zommere, K., Kleperis, J. & Jensen, S.S.: Preliminary assessment of air quality in Riga based on AQ Modelling. International Conference EcoBalt 2003, Riga, Latvia, May 15-16, 2003.

Swietlicki, E., Ketznel, M., Kristensson, A., Wåhlin, P., Gudmundsson, A., Dahl, A., Gharibi, A., Nilsson, T., Berkowicz, R., Palmgren, F., Johansson, C., Gustafsson, M. & Blomqvist, G.: Aerosol Particle Emissions from Traffic Sources: Tail-Pipe and Others - Results from Several Studies in Sweden and Denmark. Poster presented at the BACCI Workshop on Surface flux, Micrometeorology and Chemistry. WP1, Fluxes of biogenic precursor compounds. WP2. Aerosol source emission and deposition fluxes. WP7. Emissions of particles in Europe, Risø, Roskilde, Denmark, 11-12 November 2003.

Wåhlin, P. & Palmgren, F.: Source Apportionment of PM₁₀ and PM_{2.5} in a street in Copenhagen. Poster presented at the 2003 AAAR PM Meeting. Particulate Matter: Atmospheric Sciences, Exposure and the Fourth Colloquium on PM and Human Health, Hilton Pittsburgh, Pittsburgh, Pennsylvania, USA, March 31 - April 4, 2003.

Wåhlin, P., Glasius, M., Palmgren, F., Afshari, A., Gunnarsen, L., Bilde, M., Nielsen, O.J., Clausen, P.A., Jensen, K.A., Schneider, T. & Fogh, C.L.: Indoor and Outdoor Particle Measurements in a Street Canyon in Copenhagen. TRIP research Conference, The Economic and Environmental Consequences of Regulating Traffic, Hillerød, Denmark, 2-3 February 2003.

Wåhlin, P., Ketznel, M. & Palmgren, F.: Dependence on meteorological conditions of traffic particle profiles measured in a street canyon in Copenhagen. 1st International Symposium on Incomplete Combustion, Kuopio, Finland, November 9-11, 2003.

Wåhlin, P., Mønster, J.G., Glasius, M., Ketznel, M., Berkowicz, R. & Palmgren, F.: Measurements of wood burning emissions in Denmark – first results. Poster presented at the NOSA 2003 Aerosol Symposium, Copenhagen, Denmark, 13-14 November 2003.

Zlatev, Z.: Comprehensive Air Pollution Studies with the Unified Danish Eulerian Model (UNI-DEM). Invited speech at Fifth International Conference on Parallel Processing and Applied Mathematics, Czestochowa, Poland, September 7-10, 2003.

Zlatev, Z.: General Structure of the Unified Danish Eulerian Model (UNI-DEM). Invited speech at

Mathematical Modeling and Monitoring of Environmental Pollution and Its Effects, Baku, Azerbaijan, September 21-27, 2003.

Zlatev, Z.: Impact of biogenic emissions on the chemical composition of the atmosphere in the future. Preparation Meeting for the VATICAN EU Project, Bremen, Germany, August 14, 2003.

Zlatev, Z.: Impact of Future Climate Changes in Europe on Exceeded Ozone Critical Levels. Invited speech at Mathematical Modeling and Monitoring of Environmental Pollution and Its Effects, Baku, Azerbaijan, September 21-27, 2003.

Zlatev, Z.: Influence of Future Climate Changes on Pollution Levels in Europe. Seminar at the Hungarian Meteorological Institute, Budapest, Hungary, October 16, 2003.

Zlatev, Z.: Large Scale Air Pollution Modelling. Regional Transboundary Transport of Air Pollution, NATO CCMS Pilot Study, Tesseloniki, Greece, April 23-24, 2003.

Zlatev, Z.: Numerical and Computational Challenges in Environmental Modelling. Invited speech at Proceedings of Modelling and Simulation in Chemical Engineering, Coimbra, Portugal, June 30 - July 4, 2003.

Zlatev, Z.: Parallel Computations in Large-scale Scientific Models. Fifth International Conference on Parallel Processing and Applied Mathematics, Czestochowa, Poland, September 7-10, 2003.

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Baatrup-Pedersen, A. & Friberg, N.: Plant species diversity and composition in riparian areas along unregulated and regulated lowland streams. 3rd Symposium for European Freshwater Sciences, SEFS 3, University of Edinburgh, Edinburgh, UK, 13-18 July 2003.

Christoffersen, K., Faafeng, B., Amsinck, S.L. & Bjerring, R.: Abundance and composition of phytoplankton communities in 300+ Arctic, Subarctic and cold temperate lakes. NORLAKE Symposium, Gjern Søhøjland, Silkeborg, Denmark, 18-21 October 2003.

Clarke, A.: A palaeoecological investigation into coastal eutrophication at Roskilde Fjord, Denmark. Seminar at Botanical Institute, Botanical Institute, University of Copenhagen, Denmark, 11 November 2003.

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Hoffmann, C.C., Kronvang, B., Andersen, I. & Jacobsen, J.P.: Fate of Nutrients during Flooding Events in a Riparian Wetland. The Warsaw conference of ECOFLOOD, Towards natural flood reduction strategies, Warsaw, Polen, 6-13 September 2003.

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Andersen, D.H., Pertoldi, C. & Scali, V.: Intraspecific hybridization, developmental stability and fitness in *Drosophila mercatorum*. Poster presented at the IX ESEB congress, Leeds, UK, August 18-24, 2003.

Andersen, L.W.: Effects of isolation, pond restoration and inbreeding on *Hyla arborea* in agricultural landscapes'. Invited speech at the Life-project, *Hyla arborea*, Nyborg, Denmark, May 2003.

Axelsen, J.A.: The simulation model FieldEco. ESF-EcolMAT, Workshop on fFood Web Modelling for Risk Assessment of Diffuse Terrestrial Pollution. A Screening of Model-Approaches, Bilthoven, The Netherlands, 8-10 December 2003.

Balslev, H., Svenning, J.-C., Borchsenius, F., Barfod, A.B., Skov, F., Vormisto, J. & Wendelboe, S.: Palm diversity patterns. Plant diversity and complexity patterns - local, continental and global dimensions, The Royal Danish Academy of Sciences and Letters, Copenhagen, Denmark, 25-28 May 2003.

Christensen, T.K.: Horns Rev offshore Wind Farm. The impacts on bird distribution during the base-line and construction phases. Third meeting of the International Advisory Panel of Experts on Marine Ecology, Danish demonstration projects for offshore wind farms, Copenhagen, Denmark, 6-7 October 2003.

Cæurdassier, M., Larsen, T., Badot, P.M., Scheifler, R. & Krogh, P.H.: Effects of pesticides on soil community and agrosystem functioning - Implication in Ecological Risk Assessment. Poster presented at SETAC Asia/Pacific ASE 2003, Christchurch, New Zealand, 28 September - 1 October 2003.

Desholm, M.: Base-line investigations of birds in relation to the Nysted wind farm. International Advisory Panel of Experts on Marine Ecology (IAPEME), Copenhagen, Denmark, October 2003.

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Desholm, M.: Recording bird collisions by thermal camera (TADS). Workshop North Sea Windfarms, Expert meeting 'How to detect bird collisions in windfarms at sea', National institute of Coastal and Marine Management (RIKZ), Haag, The Netherlands, 6th June 2003.

Dietz, R., Härkönen, T., Teilmann, J., Hårding, K., Dietz, H.H., Johansen, K. & Rasmussen, T.D.: The North European seal epizootic 2002 - spreading, mortality and potential vectors. 15th Biennial Conference on the Biology of Marine Mammals, Greensboro, North Carolina, USA, 14-19 December 2003.

Ejrnæs, R., Aude, E., Nygaard, B., Poulsen, R.S. & Liira, J.: Use of supervised classification for identification and quality assessment of conservation-worthy habitats. International Biometric Society - Nordic Regional Conference, Uppsala, Sweden, 12-14 June 2003.

Elmegaard, N.: Indirect effects of pesticides on ecosystems biodiversity. Pesticides Action

Network (PAN) Europe Conference, Reducing pesticide dependency in Europe to protect health, environment and biodiversity, Københavns Miljøkontrol, Copenhagen, Denmark, 20 November 2003.

Eriksen, N., Tougaard, J. & Miller, L.A.: Long-time description of humpback whale songs in Tonga. 15th Biennial Conference on the Biology of Marine Mammals, Greensboro, North Carolina, USA, 14-19 December 2003.

Fox, A.D.: Changes in the global fortunes of Greenland White-fronted Geese over 20 years of conservation and monitoring. 4th All Ireland Ornithological Research Conference, University College Cork, Cork, Ireland, 14-15th November 2003.

Fox, A.D.: Greenland White-fronted Goose – a review of the current population status. International workshop to develop a LIFE-Nature project application, Edinburgh, Scotland, 28th July 2003.

Fox, A.D.: The geese in the bog - 30 years of international collaboration concerning conservation and research of the Greenland White-fronted Goose. Irish National Parks and Wildlife Service Annual Conference, Kilkenny, Ireland, 22-24 September 2003.

Fox, A.D. & Petersen, I.K.: Assessing habitat loss to marine birds from offshore wind farms. One-day Symposium, Ornithological Section, Zoological Museum, Copenhagen, Denmark, 16th December 2003.

Fox, A.D. & Petersen, I.K.: Habitat loss to marine birds from offshore wind farms:1. Background and theory. European Seabirds-at-Sea Meeting, Büsum, Germany, 22-23 March 2003.

Fox, A.D. & Petersen, I.K.: Habitat loss to marine birds from offshore wind farms:3. Analytical method. European Seabirds-at-Sea Meeting, Büsum, Germany, 22-23 March 2003.

Fox, A.D. & Petersen, I.K.: Methods for measuring habitat loss to marine birds from Danish offshore wind farms - an update. Third meeting of the International Advisory Panel of Experts on Marine Ecology, Danish demonstration projects for offshore wind farms, Copenhagen, Denmark, 6-7 October 2003.

Fox, A.D. & Petersen, I.K.: The Danish approach to the assessment of habitat loss to marine birds from offshore wind farms. COWRIE (Collaborative Offshore Wind Research into the Environment) Workshop: A comparison of Ship and Aerial sampling methods for marine birds, and their applicability to Offshore Windfarm Assessments, University of Aberdeen, Aberdeen, Scotland, 24th November 2003.

Fredshavn, J.R.: Naturintegration i VMP3. Slutevaluering af Vandmiljø II og det faglige grundlag for Vandmiljøplan III, Christiansborg, København, Danmark, 11. december 2003.

Fredsted, T., Pertoldi, C., Olesen, J.M., Eberle, M. & Kappeler, P.M.: Microgeographic heterogeneity in spatial distribution and genetic structure of grey mouse lemurs (*Microcebus murinus*). Poster presented at the IX ESEB congress, Leeds, UK, August 18-24, 2003.

Graae, B.J., Fischer, E.A., Linde, G.B. & Strandberg, B.: Temperature and vegetation changes in dwarf shrub heaths in Northwest Greenland 1991-2002. Poster presented at Arctic - Alpine Ecosystems and People in a Changing Environment, Tromsø, Norway, March 2003.

Hansen, J.R., Desportes, G., Teilmann, J., Larsen, F., Dietz, R. & Geertsen, B.M.: Profile of porpoises bycaught in Danish poundnets in 1997-2002. Poster presented at the 17th Conference of the European Cetacean Society , Las Palmas de Gran Canaria , Spain, 9-13 March 2003.

Henriksen, O.D., Miller, L.A., Tougaard, J. & Dietz, R.: Underwater Noise From Offshore Wind Turbines: Expected Impacts on Harbor Seals and Harbor Porpoises. Environmental Consequences of Underwater Sound (ECOUS) Symposium, San Antonio, Texas, USA, 12-16 May 2003.

Henriksen, O.D., Teilmann, J., Edrén, S.M.C., Carstensen, J., & Skov, H.: Use of passive porpoise detectors (T-PODS) in large scale to detect environmental impacts on harbour porpoises from offshore windturbines. Poster presented at the 17th Conference of the European Cetacean Society , Las Palmas de Gran Canaria , Spain, 9-13 March 2003.

Jepsen, J.U., Madsen, A.B., Karlsson, M. & Groth, D.: Predictive modelling of the European badger (*Meles meles*) in Denmark: sett distribution and population density. 4th European Congress of Mammalogy, Brno, Czech Republic, July 27-August 1, 2003.

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Nygaard, B.: Assembly rules for a wetland microcosm experiment. 46 th IAVS Symposium, Water Resources and Vegetation, Napoli, Italy, 9-13 June 2003.

Odderskær, P., Tybirk, K., Topping, C.J., Axelsen, J.A. & Bruus Pedersen, M.: Effekter af reduceret pesticidanvendelse på planter, insekter og fugle = Effects of reduced pesticide use on plants, insects and birds. 20. Danske Planteværnskonference, Nyborg Strand, Danmark, 4-5 marts 2003.

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Pertoldi, C. & Loeschcke, V.: Admixture analysis for Conservation genetics purposes. NorFa Network Seminar, Kilpisjärvi Biological Station, Kilpisjärvi, Finland, September 17th - 21st, 2003.

Pertoldi, C. & Topping, C.J.: The use of agent-based modelling of genetics in conservation genetics studies. Seminar holded at the Estacion Biologica La Donana, Sevilla, Spain, 13th November 2003.

Ravn, H.W., Lauridsen, L., Kudsk, P.N., Mathiassen, S.K. & Thysen, H.R.: Plant Biomarker Patern - A new tool to evaluate herbicide effects on plants using Thin Layer Chromatography (TLC). Poster presented at the International Symposium for Thin Layer Chromatography, Palais de Congrès, Lyon, France, October 15-18, 2003 .

Simonsen, V.: Genetic susceptibility in ecosystems. 7th Nordic Conference of The Nordic Societies of Toxicology and Environmental Mutagenesis, Rønne, Denmark, June 15-18, 2003.

Strandberg, B. & Strandberg, M.T.: Invasion by carrots (*Daucus carota*) into Danish grassland community - study of community invasibility and effects on the invaded community. Poster presented at Invasive Plants in Natural and Managed Systems: Linking Science and Management in conjunction with 7th International Conference on the Ecology and Management of Alien Plant Invasions , Ft. Lauderdale, Florida, USA, November 3-7, 2003.

Strandberg, M.T., Strandberg, B. & Erneberg, M.: Methods for evaluation of the invasibility of grasslands. Poster presented at Invasive Plants in Natural and Managed Systems, Linking Science and Management in conjunction with 7th International Conference on the Ecology and Management of Alien Plant Invasions, Ft. Lauderdale, Florida, USA, November 3-7, 2003.

Søgaard, B. & Madsen, A.B.: Conservation status of the otter *Lutra lutra* in Denmark. 4th European Congress of Mammalogy, Brno, Czech Republic, July 27th - August 1. 2003.

Søgaard, B. & Nielsen, K.E.: Monitoring and assessment of conservation status for habitats and species in Denmark. Workshop on favourable conservation status for habitats and species, Thaytal, Austria, 2-3 October 2003.

Teilmann, J.: Decisions and preparations before tagging. Small Cetacean Tagging Workshop at 15th Biennial Conference on Biology of Marine Mammals, Greensboro, North Carolina, USA, 14th December 2003.

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